The



Attorney Docket No. 1567.1054

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	
Jin-Hee, KIM et al.	
Application No.: 10/685,272	Group Art Unit: 1745
Filed: September 10, 2003	Examiner: Unassigned

For: A NON-AQUEOUS ELECTROLYTE AND A LITHIUM SECONDARY BATTERY COMPRISING THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

۱.		enciosures	accompanying this information disclosure Statement are:
		1a. ⊠ 1b. ⊠	Form PTO-1449. Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications for applications filed on or after June 30, 2003.
		1c. 🛚	English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
		1d. 🗌	English language translation (Abstract Only) attached to each non-English language publication.
		1e. 🗌	Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
		1f. 🔲	List of Copending Applications (ATTACHMENT 1(f), hereto).
		1g. 🔲	List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).
2.	\boxtimes	This Infor	mation Disclosure Statement is filed under 37 CFR §1.97(b):
			(Check either Item 2a or 2b or 2c or 2d)
		2a. 🗌 2b. 🔲	Within three months of the filing date of a national application; Within three months of the date of entry of the national stage as set forth in
		2c. ⊠ 2d. □	§ 1.491 in an international application. Before the mailing of a first Office Action on the merits; or Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
			v

Serial No.: 10/685,272

3.	specified Action un	mation Disclosure Statement is filed under 37 CFR §1.97(c) after the period in paragraph 2 above but before the mailing date of any of a Final Office der § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise osecution in the application, AND					
		(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)					
	3a.	The § 1.97(e) Statement in Item 5 below is applicable; OR The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: enclosed.					
		to be charged to Deposit Account No. 19-3935.					
4.		mation Disclosure Statement is filed under 37 CFR §1.97(d) after the period in paragraph 3 above, but on or before payment of the Issue Fee, AND The § 1.97(e) Statement in Item 5 below is applicable; AND The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:					
		enclosed.to be charged to Deposit Account No. 19-3935.					
		to be charged to beposit Account No. 19-3933.					
5.	Statement under § 1.97(e) (applicable if Item 3a or Item 4 is checked)						
	_	(Check either Item 5a or 5b)					
	5a. 🗌	In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.					
	5b.	In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.					
6.	This is a of 1.53(b).	continuation/divisional/continuation-in-part application under 37 CFR §					
		(Check appropriate Items 6a and/or 6b)					
	6a. 🗌	Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).					
	6b. 🗌	Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.					

3

Serial No.: 10/685,272

7.		This is a	Request for Continued Examination under 37 CFR § 1.114.
			(Check either Item 7a or 7b)
		7a.	The Issue Fee has not been paid. A Petition to Withdraw from issue under 37 CFR §1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR § 1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR § 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.
8.		This is a	Supplemental Information Disclosure Statement.
			(Check either Item 8a or 8b)
		8a. 🗌	This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can
		8b. 🗌	be considered as if properly filed on This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR § 1.97 and 1.98, mailed (MPEP 609 C(1), Form & 6.49, Rev. 1, Feb. 2000, pp. 600-107)
9.			nce with 37 CFR § 1.98, a concise explanation of what is presently to be the relevance of each non-English language publication is:
			(Check appropriate Items 9a, 9b, 9c and/or 9d)
		9a. 🗌	satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)
		9b. 🔲	set forth in the application.
		9c. 🗌	satisfied because an English language translation (Abstract Only) is
		9d. 🔲	attached to each non-English language publication. enclosed as Attachment 1(e), hereto.
10.	be th	e, material an search	on is made that the information cited in this Statement is, or is considered to to patentability nor a representation that a search has been made (other report(s) from a counterpart foreign application or a PCT International ort, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

Serial No.: 10/685,272

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: <u>190/97</u>

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Registration No. 37,240



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

Sheet 1 of 1

APPLICATION NO.

1567.1054

FIRST NAMED INVENTOR

Jin-Hee, KIM et al.

FILING DATE

GROUP ART UNIT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

September 10, 2003

1745

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	6,074,777	06/13/00	Reimers et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSL YES	ATION NO
	AB	EP 1361622 A1	11/12/03	Europe				
-	AC	EP 1335445 A1	08/13/03	Europe				
-	AD	EP 0776058 A2	05/28/97	Europe			,	
	AE	EP 0759641 A1	02/26/97	Europe				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AF	Möller, KC., et al. "In situ characterization of the SEI formation on graphite in the presence of a vinylene group containing film-forming electrolyte additives", June 1, 2003, Journal of Power Sources, Vol. 119-121, pp. 561-566.
AG	Arimura, Tomoaki, et al., "The effect of additives on the ionic conductivity performances of perfluoroalkyl sulfonated ionomer membranes", March 1, 1999, Solid State Ionics, Vol. 118, pp. 1-10.
АН	Wang, Congxiao, et al., "Electrochemical behaviour of a graphite electrode in propylene carbonate and 1,3-benzodioxol-2-one based electrolyte system", July 15, 1998, Journal of Power Sources, Vol. 74, pp. 142-145.
Al	Matsuda, Yoshiharu, "Behavior of lithium/electrolyte interface in organic solutions", 1993, Journal of Power Sources, Vol. 43-44, pp. 1-7.
AJ	Matsuda, Yoshiharu, et al. "Organic additives for the electrolytes of rechargeable lithium batteries", May 16, 1989, Journal of Power Sources, Vol. 26, pp. 579-583.

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not cita	otion is in conformance with MRED 600: Draw line through

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.